

DMS 1908

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

FP-91 A
PENETRANT

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME MET-L-CHEK COMPANY		EMERGENCY TELEPHONE NO. 213-394-0222
ADDRESS (Number, Street, City, State, and ZIP Code) 1639 Euclid Street, Santa Monica, CA 90404		
CHEMICAL NAME AND SYNONYMS NA		TRADE NAME AND SYNONYMS FP-91 A PENETRANT
CHEMICAL FAMILY NA	FORMULA NA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	417 F	SPECIFIC GRAVITY (H ₂ O=1)	0.86
VAPOR PRESSURE (mm Hg.)	1	PERCENT, VOLATILE BY VOLUME (%)	about 70
VAPOR DENSITY (AIR=1)	about 6.7	EVAPORATION RATE (_____ =1)	Unknown
SOLUBILITY IN WATER	emulsifiable		
APPEARANCE AND ODOR	light greenish yellow liquid, pleasant odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	over 200 F (COC)	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	foam, CO ₂ , dry chemical, water fog			
SPECIAL FIRE FIGHTING PROCEDURES	NONE			
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

200 PPM (suggested)

EFFECTS OF OVEREXPOSURE

May cause signs and symptoms of central nervous system depression such as headache, dizziness, loss of appetite and weakness.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air, maintain respiration

Eyes: Flush with plenty of water

Skin: Remove by wiping, wash with soap and water

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

Keep away from sparks or open flames

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion will release CO

HAZARDOUS
POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

X

CONDITIONS TO AVOID

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove sources of ignition. Avoid prolonged breathing of vapors. Avoid contact with skin and eyes.

WASTE DISPOSAL METHOD

Treat as any inflammable liquid. Haul away for safe outdoor disposal, or haul away by oil reclaimers. Use oil sewer if available.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

None under proper conditions of use.

VENTILATION

LOCAL EXHAUST

When material is sprayed

SPECIAL

MECHANICAL (General)

As required to maintain TLV

OTHER

PROTECTIVE GLOVES

None

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store out of direct rays of sun. Do not expose to fire.

OTHER PRECAUTIONS

Keep containers closed and clearly labeled.